

ZHUZE, V.P.; SHELYKH, A.I.

Hall effect in nickel oxide. Fiz. tver. tela 5 no.6:1756-
1759 Je '63. (MIRA 16:7)

1. Institut poluprovodnikov AN SSSR, Leningrad.

Semiconducting properties ofnickel oxide. V. P. Zhuze, A. I. Shelykh.

Mobility of current carriers in ferro-and antiferro-magnetic material
Ya. M. Ksendzov.

Electrical properties of chalcogenides of rare earth elements.
A. V. Golubkov, Ye. V. Goncharova, V. P. Zhuze, V. M. Sergeyeva.

Report presented at the 3rd National Conference on Semiconductor Compounds,
Kishinev, 16-21 Sept 1963

BOGOMOLOV, V.N.; ZHIZE, V.P.

Some modern methods of measuring the Hall effect. Porosh. mot. 2
no.6:89-95 N-D '62. (MIRA 15:12)

1. Institut poluprovodnikov AN SSSR, Leningrad.
(Hall effect)

S/226/62/000/006/014/016
E073/E533

AUTHORS: Bogomolov, V.N. and Zhuzo, V.P.

TITLE: Some modern methods of measuring the Hall effect

PERIODICAL: Poroshkovaya metallurgiya, no.6 , 1962, 89-95

TEXT: Published methods, particularly an a.c. method developed by the authors and their team, of measuring the Hall effect in nondegenerated and degenerated semiconductors are discussed. Difficulties in obtaining a.c. magnetic fields with low electromagnetic emission were overcome to a considerable extent by using mechanical magnetic field modulators in which the d.c. field is modulated by rotating the toothed end-pieces inside the gap (between the poles) of a permanent- or electromagnet. The a.c. component of the magnetic field is utilised for measuring the Hall effect and this can be measured in substances with mobilities up to $5 \cdot 10^3$ cm²/V·sec. For the measurements, a single narrow-band amplifier suffices, since the current to be fed through the specimen can be taken direct from the network and the modulator can be driven by a synchronous motor. Since the mechanical modulator does not change the polarity

Card 1/2

L 18567-63

EMT(1)/IJP(a)/EMT(m)/BDS

AFFTC/ASD/ESD-3/IJP(C)

Pad

JD/ME

S/0181/63/005/006/1756/1759

66
65

ACCESSION NR: AP3001311

AUTHORS: Zhuze, V. P.; Shelykh, A. I.

TITLE: Hall effect in nickel oxide

SOURCE: Fizika tverdogo tela, v. 5, no. 6, 1963, 1756-1759

TOPIC TAGS: Hall effect, Ni, O, conductivity, current, carrier, hole, mobility, Li, crystal, polycrystalline, magnetic field, diffusion, mean free path

ABSTRACT: The authors studied this phenomenon because of contradictory conclusions of other investigators concerning the mechanism of conduction in NiO. Single crystals of NiO were prepared at the Institut kristallografi AN SSSR (Institute of Crystallography, Academy of Sciences USSR). Samples for measurement were cut from these by a magnetostrictive cutter. Polycrystalline samples of $Li_xNi_{1-x}O$, with various values of x, were prepared from analytical-grade $NiCO_3$ and Li_2CO_3 . The electrical conductivity and the Hall effect were measured with direct current, and the Hall effect was determined in a steady magnetic field at strengths up to 30 000 oersteds. The electrical conductivity was found to increase and the Hall effect decrease with rise in temperature in both NiO.

Card 1/2

L 18567-63

ACCESSION NR: AP3001311

(single crystals and polycrystalline aggregates) and NiO alloyed with Li, indicating an increase in concentration of current carriers. The Hall mobility of holes in NiO and Ni(1) alloyed with Li was found to fall with temperature increase. Measurements in the 700-1000°C range indicate this mobility to be less than 1.0 cm²/volt-sec. The low mobility and its drop with rise in temperature are grounds for believing that current carriers in NiO probably move through a narrow band and not by activated diffusion along local levels, as previously suggested. This low mobility is due to the large effective mass of the carrier--not to short mean free path. Orig. art. has: 2 figures.

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad (Institute of Semiconductors, Academy of Sciences, USSR)

SUBMITTED: 11Mar63

DATE ACQ: 01Jul63

ENCL: 00

SUB CODE: PH

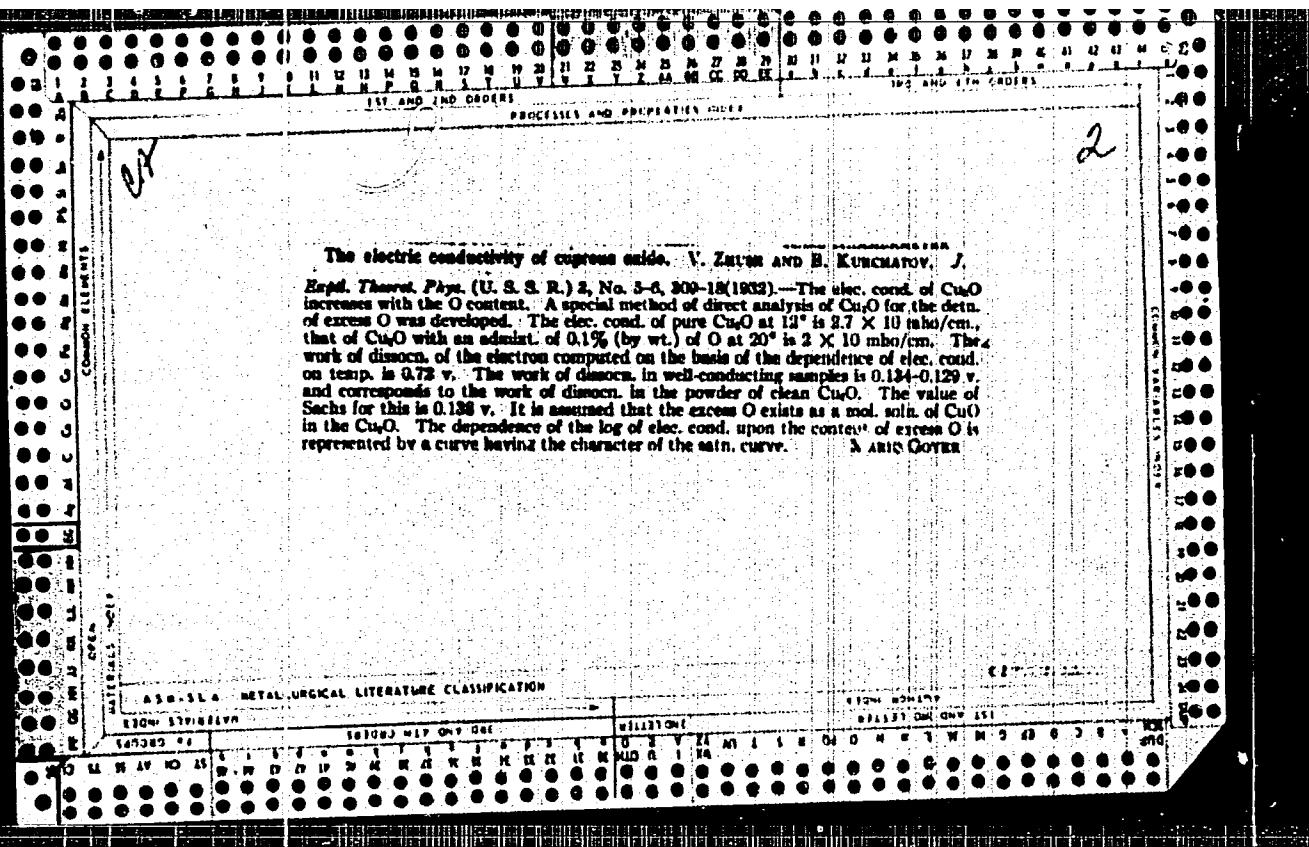
NO REF Sov: 006

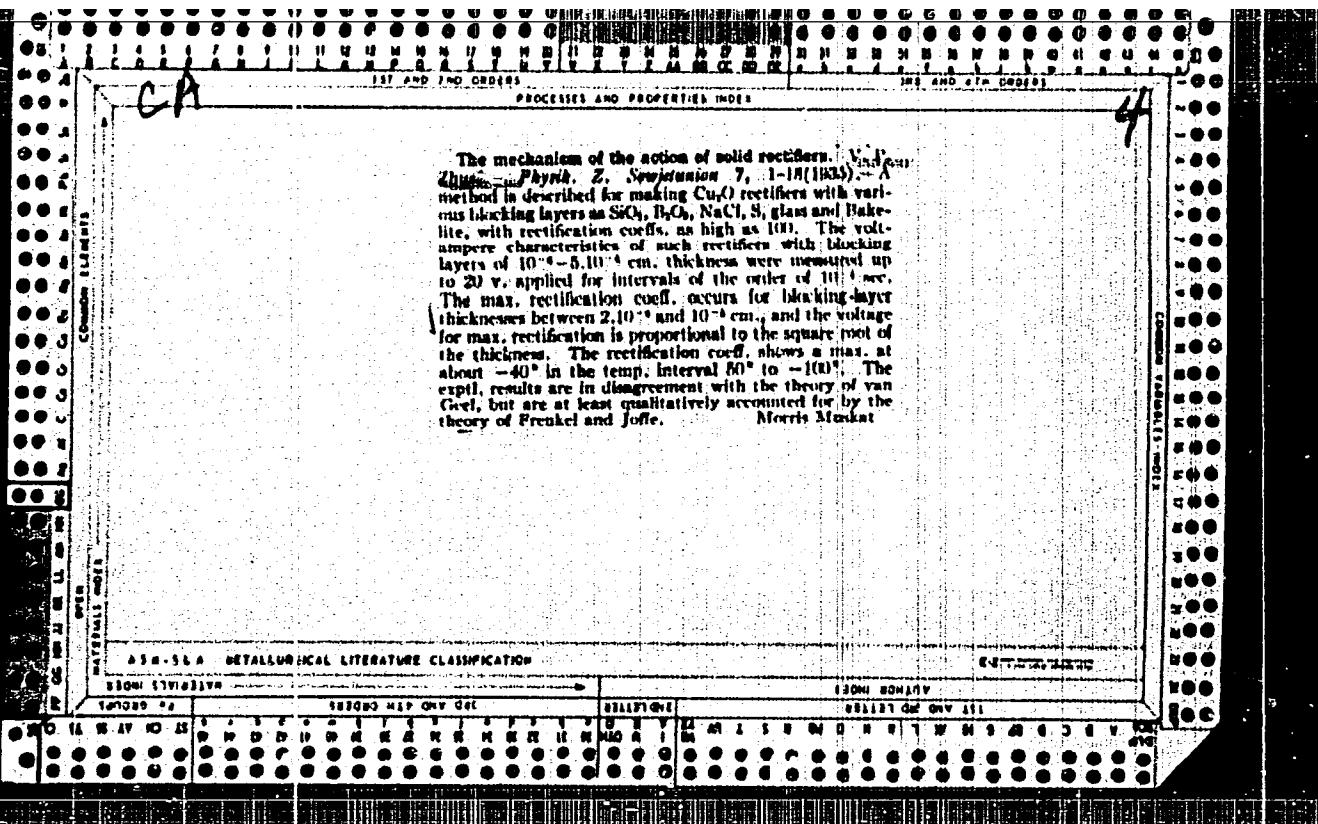
OTHER: 011

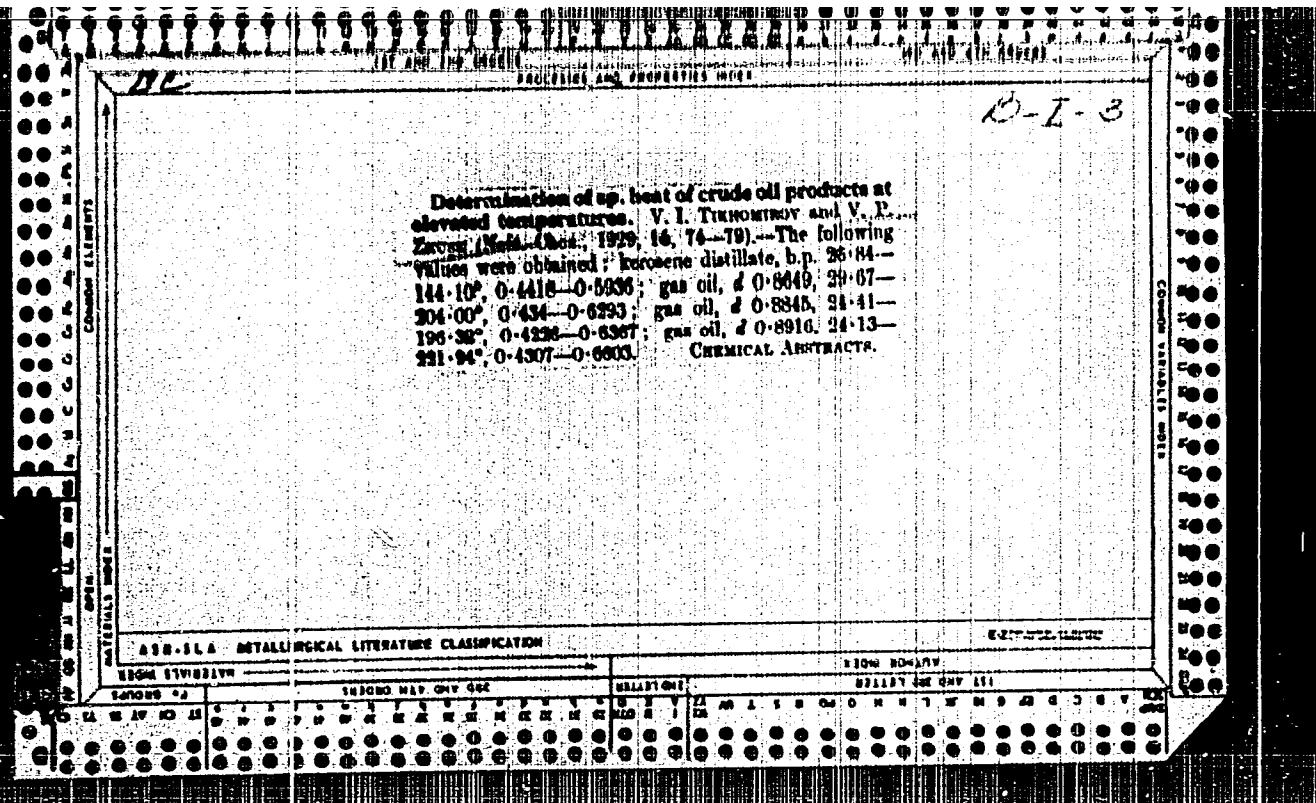
Card 2/2

ZHIZE, Vladimir Panteleimonovich; GUSEKOVA, Yelena Ivanovna; ARON,
G.M., red.izd-va; ZENDEL', M.Ye., tekhn. red.

[Bibliography on thermoelectricity; thermoelectric generators
and coolers] Bibliografiia po termoelektrichestvu; termoelekto-
generatory i okhlazhdaiushchie ustroistva. Moskva, Izd-vo
Akad. nauk SSSR, 1963. 249 p. (MIRA 16:2)
(Bibliography--Thermoelectricity)







~~RESTRICTED~~

Z
ZHUSE, V. P.

Z
TIKHOIROV, V. I. and ZHUSE, V. P.
Neftyanoe Khozyaistvo 16, 74-9 (1929)
Specific- heat determination of crude oil products
at elevated temperature.

CA: 23-4807/1

~~RESTRICTED~~

L 6320-66	EWT(m)/EWP(t)/EWP(b)	IJP(c)	JW/JG				
ACCESSION NR:	AP 019861			UR/C181/65/007/008/2450/2456			
AUTHOR:	Golubkov, A. V.; Goncharova, Ye. V.; Zhuze, V. P.; Manoylova, I. G.				71		
TITLE:	On the mechanism of transport phenomena in samarium sulfide				79		
SOURCE:	Fizika tverdogo tela, v. 7, no. 8, 1965, 2470-2476?						
TOPIC TAGS:	samarium compound, Hall effect, electron mobility, temperature dependence, activation energy, transport phenomenon, electron transition, thermoelectric power, conduction band, forbidden zone width						
ABSTRACT:	The authors investigated the temperature dependence of the Hall emf in several samples of SmS in the interval 300--1000K. The synthesis of the material and the procedure for preparing the samples for the measurements, as well as the method for measuring the conductivity and the differential thermoelectric power were described by the authors elsewhere (FTT v. 6, 268, 1964). The Hall emf was measured on dc in a constant magnetic field at $\sim 10^{-4}$ mm Hg, a maximum current density through the sample 10 a/cm^2 , and a maximum magnetic field intensity 30 kOe. The activation energy of transitions of the electrons from the t_2 state into the conduction bands is estimated from these measurements and from the measured temperature dependences of the electric conductivity and the differential thermoelectric power. A value of 0.23 ev was obtained for the activation energy, and was in good						
Card 1/2							

TOPIC/TAGS:

ultraviolet light, ultra-violet radiation, silicon organic polymer

ABSTRACT: Using the method of electron paramagnetic resonance, kinetic investigations were made of the formation and reactions of free radicals in polyphenylmethyl-siloxane. At 77°K the CH_3 and $\text{R}-\text{CH}_2$ radicals were identified. The study of the kinetic patterns of the accumulation of free radicals depending on the intensity of ultraviolet light shows that the process of the formation of the methyl radicals, which requires the rupture of the silicon-carbon chemical bond, is of a two-quantum nature; whereas the process of the formation of the $\text{R}-\text{CH}_2$ radicals, which starts from the spind of the reaction of methyl radicals, is of a one-quantum nature. The con-

Card 1/2

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065110002-4

L-5006-65	ACCESSION NR: AP5006773	ASSOCIATION: Institut chimicheskoy kinetiki i gorenija im. N. B. Semenova (Institute of Chemical Kinetics and Combustion of Carbon Monoxide, Academy of Sciences of the USSR)	REF ID: A
SUBMITTED: 20 Apr 64	EXCL: 06	RTM CODE: C0314	
NO REF SQV: 003	OTHER: 007		
Card 2/2 N/A			

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065110002-4"

Zhuzgov,

Title of Work Information

Approved work

807/2074

Tsentroneftegazinform agentstvo, VD-2: Results of research performed by
Tsentroneftegazinform agentstvo in connection with launching artificial Earth
satellites. Part 1: Results of Scientific Studies
Carried Out by the Third Earth Satellite. Moscow, Izdatel'stvo Akademii Nauk,
1958. 22 pp., 3,500 copies printed.

M. I. V. Rumyantsev, M. A. Polikarpov, D. N. Aleksandrov, N. N.
Tsvetkov, Yu. V. Sviridov.

This collection of articles contains results of the scientific studies
carried out by the third Soviet space satellite. Much information
comes from other radio and satellite investigations. The results
of these other radio and satellite investigations are included.

Card 1/3

of the Special INT Committee held in Moscow in August, 1958. Individual
articles discuss the basic composition and density of the atmosphere,
thermodynamic parameters of the stratosphere, and questions dealing with
the motion of the satellite. References concerning each article.

Rumyantsev, V.I. Soviet Research of the Ionosphere by Means of Satellites
and Artificial Earth Satellites

Bilichuk, F. G., I. I. Chistyakov, and M. I. Polikarpov. Preliminary Report
on Geophysical Measurements on the Third Soviet Artificial Earth Satellite. Pt.

1: Results of Measurements of Magnetic Field by Radiosonde and Magnetometer
in the Atmosphere of the Earth's Ionosphere. V. I. Rumyantsev, S. M. Polikarpov, and L. Z. Rumyantseva.

Rumyantsev, V. I., N. M. Budnik, O. I. Kondratenko, O. Z. Pashchenko, and T. M. Strel'tsova. Detection of Disturbances by the Third Artificial Earth Satellite
in Orbit. V. I. Rumyantsev, N. M. Budnik, O. I. Kondratenko, O. Z. Pashchenko, and T. M. Strel'tsova.

Rumyantsev, V. I., P. V. Polikarpov, P. F. Gorchakov, N. I. Kosolapov, and A. B. Slobodchikov. Study of the Polar Component of Cosmic Rays Beyond
Atmospheric Limits

Rumyantsev, V. I., M. I. Polikarpov, and M. I. Zhdanov. New Results in
Physics of Cosmic Radiation

Artificial Earth Satellites (cont.)

Vorob'yev, T. G., A. F. Zaitsev, and V. E. Shchegolev. Solar Batteries

Fedorov, M. I. and N. A. Ryz. Acoustical Method of Measuring the
Mechanical Parameters of Materials

AVIATION: Library of Congress

807/2074
12-11-59

Card 4/3

SOV/35-5941-9272

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 11, p 91
(USSR)

AUTHORS: Dolgirov, S.Sh., Zhuzgov, L.N., Pushkov, N.V.

TITLE: The Preliminary Report About Geomagnetic Measurements on the 3rd Soviet
Artificial Earth Satellite

PERIODICAL: Sb. Iskusstv. sputniki Zemli. Nr 2, AS USSR, 1958, pp 50 - 53

ABSTRACT: Geomagnetic measurements were carried out on the 3rd artificial earth satellite, which were accomplished with the aid of a magnetometer with magneto-saturated pick-ups. The obtained experimental data will be utilized in the following ways: 1) The comparison of the values of the field measured by the magnetometer and calculated according to the potential theory. 2) The comparison of the isolation of the full strength of the magnetic field and the intensity of the cosmic rays measured on the sputnik. 3) The analysis of the area over the Eastern-Siberian magnetic anomaly, in order to check the hypotheses on the depth of occurrence of its sources. 4) Investigation into the true existence of an atmospheric dynamo.

Card 1/1

G.A. Kokin



"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065110002-4

ZHUGOV, L. N., PUNIKOV, N. V., TYURMINA, L. O., DOLGINOV, S. Sh., YEROSHENKO, Ye. G.

"Studies of the Magnetic Field of the Earth and the Moon."

report presented at the XI International Astronautical Congress, Stockholm, Sweden,
15-20 August 1960.

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065110002-4"

Zhu z Gov. L.N.

		PAGE FLOOR NUMBER	SERIAL
	<i>Analysts' work desk</i>		
	<i>Communication signals sent by artificial earth satellites, No. 1</i>		
	Reuter, 1960, No. 7, Moscow, 16 pages printed.		
	Author: Max I. S. Denisenko; M. V. Pashchenko; N. M. Prudkin; Tech. Ed.: V. G. Polozov.		
	PURPOSE: Dissemination of scientific data obtained in investigation performed by means of artificial earth satellites.		
	CONTENTS: The collection consists of 15 articles dealing with scientific data on orbits, artificial earth satellites (AES) and remote rovers. The topics discussed include the development of the theory of the upper atmosphere, motion of artificial satellites, measurements of atmospheric densities and various atmospheric parameters, methods of communication, electrical potential, and propagation of radio waves. The collection is part of a series published regularly. <i>Pravda</i> (Pravda) was the journal in which the materials in this collection were published.		
	REFERENCE: 1. The determination of the conditions of illumination and the time intervals in which the satellite passes in sunlight and in shadow. 2. The article discusses one of the possible methods of determining the conditions of illumination of satellites. The relative motion of the first, second and third satellite with respect to the earth is briefly analyzed.		
	REFERENCE: 2. A. A. Pashchenko, and R. S. Kostomarov. Determination Orbital Parameters of All Orbiting Maneuverable Satellites	45	
	An orbital method of orbital parameter determination and forecasting of satellite motion is given. The method is based on data from the processing of optical and radiotelephonic observations.		
	REFERENCE: 3. D. K. Kondratenko. Numerical Solution of Functions in Finite Differences	45	
	The finite difference method is applied to the calculation of orbital parameters of celestial bodies. In the solution of systems of nonlinear differential equations determining the motion of AES is larger than 1000.		
	REFERENCE: 4. Equation of Disturbed Motion in Kepler's Problem	82	
	REFERENCE: 5. Elements of the Rock Theory of Soils Based on High (Contact) Friction	86	
	The author discusses the problem of friction of surfaces at high (normal) velocity against the surface of a planet. This problem is related to the study of shock of meteorites against the surface of the Earth.		
	REFERENCE: 6. D. K. Kondratenko, and V. A. Solntsev. Numerical Treatment of the Upper Atmosphere Layer	113	
	The author attempts to connect phenomena occurring in the upper atmosphere with the presence there of particles or surface irregularities.		
	REFERENCE: 7. D. K. Kondratenko, and V. A. Solntsev. Numerical Treatment of the Turbulent Flow in the Atmosphere	135	
	The work principle and mathematical models of atmospheric turbulent flow in the atmosphere are described.		

Card 4/6

ZHIZGOV, L. N.

PHASE I BOOK EXPLOITATION

SOV/4282

Akademiya nauk SSSR

Ieskusstvennyye sputniki zemli, vyp. 5 (Artificial Earth Satellites, No. 5)
Moscow, Izd-vo AN SSSR, 73 p. Errata slip inserted. 7,000 copies printed. 1960

Resp. Ed.: L. V. Kurnosova; Ed. of Publishing House: M. I. Fradkin; Tech. Ed.:
O. M. Gus'kova.

PURPOSE: The booklet is intended for scientists and engineering and scientific personnel working in the field of space travel and satellite flight.

COVERAGE: The collection of 10 articles deals with problems of satellite orbits, magnetic measurements, radiation, the visibility of space vehicles, the upper atmosphere, and meteoric substances. No personalities are mentioned. References accompany some of the articles.

Card 1/3

Artificial Earth Satellites (Cont.)

SOV/4282

Sedov, L. I. Space Rocket Orbits in the Direction of the Moon 3

Dolginov, S. Sh., Ye. G. Yeroshenko, L. N. Zhuzgov, N. V. Pishkov, and L. O. Tyurmina. Magnetic Measurements on the Second [Soviet] Space Rocket

16

Vernov, S. N., A. Ye. Chudakov, P. V. Vakulov, Yu. I. Logachev, and A. G. Nikolayev. Radiation Measurement in the Flight of the Second Space Rocket

24

Kurnosova, L. V., V. I. Logachev, L. A. Razorenov, and M. I. Fradkin. Investigation of Cosmic Radiation in the Flight of the Second Space Rocket to the Moon

30

Nazarova, T. N. Results of the Investigation of Meteoric Substance With the Help of Instruments Mounted in Space Rockets

38

Raushenbach, B. V., and Ye. N. Tokar'. Some Problems of Control in Interplanetary Space

41

Card 2/3

Artificial Earth Satellites (Cont.)

sov/4282

Gurko, O. V. Determination of the Visibility Conditions of Space
Rockets

54

Danilov, A. D. Concerning the Problem of the Formation of NO⁺ in
the Upper Atmosphere

50

Kuperov, L. P. Observations of Signals From the Third Soviet
Artificial Earth Satellite From Cape Chalyuskin

66

Yatsunskiy, I. M., and O. V. Gurko. Change of the Albedo of the
First Artificial Earth Satellite Resulting From the Action of
External Factors

71

AVAILABLE: Library of Congress

Card 3/3

AC/pw/ial
11-30-60

DOLGINOV, S.Sh.; ZHUGOV, L.N.; SELYUTIN, V.A.

Magnetometering equipment of the third Soviet artificial
earth satellite. Isk.sput.Zem. no.4:135-160 '60.
(MIRA 13:5)

(Artificial satellites)(Magnetometer)

DOLGINOV, S.Sh.; YEROSHENKO, Ye.G.; ZHUGOV, L.N.; PUSHKOV, N.V.;
TYURMINA, L.O.

Magnetic measurements with the second cosmic rocket, Isk.
sput.Zem. no.5:16-23 '60. (MIRA 13:5)
(Lunar probes) (Magnetic measurements)

ZHUGOV, L. N.

- a. Radar Contact with Venus - V. A. Motelnikov
- b. Some Results of the Constant Geomagnetic Field Measurements Carried Out from Sputnik XII over the Territory of the USSR - S. Sh. Dolginov, L. N. Zhugov, N. V. Pukhov, Tyurnina, L. O., I. V. Eryabinov
- c. Some Results of Physiological Reactions to Space Flight Conditions - C. G. Gorshko, V. T. Mikhalevsky
- d. On The Motion of the Body of the Variable Mass With the Constant Power Concentricity in the Gravitational Field - G. L. GROZDOVSKY, Y. N. Ivlev, V. V. Ustinov
- e. On The Hardest Solar Corpuscles - V. I. Krassovsky
- f. Optimum Contour Heat Rejection Fins Cooled by Radiation - G. L. Grozovsky
- g. Investigation of Interplanetary Plasma and Planetary Ionospheres by Means of Charged Particle Traps on Space Rockets - K. I. Gringauz
- h. Rocket and Satellite Meteoric Dust Investigations - T. N. Nazarova
- i. On Investigation of Cosmic Radiation on Spaceships-Satellites. - S. N. Vernov, V. E. Risterov, N. F. Pirarenko, I. A. Savchenko, P. I. Shurin. - UNCLASSIFIED

reports to be presented at the XIIth International Astronautical Congress,
Washington D. C. 1-7 October 1961

(19)

Name : ZHUGOV, L. N.

Remarks : L. N. ZHUGOV is co-author of the paper entitled "Magnetometric Equipment of the Third Soviet Artificial Earth Satellite" with V. A. SELYUTIN and Shmey Shlemovich DOLGINOV, who is Head of the Magnetics Laboratory of the Institute of Terrestrial Magnetism, Ionosphere and Radio Wave Propagation of the USSR Academy of Sciences and member of the Soviet scientific delegation to Washington.

Source : Background Material Release on Soviet Delegation and Authors of Soviet Papers by the Press Office of the IIIth International Astronautical Congress, Washington, D. C., October 2-8, 1961.

73 .10

29718 S/169/61/000/008/034/053
A006/A101

3,2500 (1080)

AUTHORS: Dolginov, Sh. Sh., Yeroshenko, Ye. G., Zhuzgov, L. N., Pushkov, N. V.

TITLE: Investigation of the magnetic lunar field

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 8, 1961, 12, abstract 8080
("Geomagnetizm i aeronomiya", 1961, v. 1, no. 1, 21-29)

TEXT: Information is given on experimental problems and data about the lunar field, obtained during the flight of the second Soviet space rocket. An analysis was made of the sensitivity threshold of the measuring instruments from data of measurements in the weak terrestrial magnetic field at 45-60 thousand km distance from the Earth's center. The noise level in the lunar orbit space was analyzed, and measurements were made directly near the Moon down to 55 km distance from its surface. As a result no indications of a noticeable lunar magnetic field were detected. It was estimated that the dipole magnetic moment of the Moon can be only less than 1/10,000 of the magnetic moment of the Earth. X

The authors' summary

[Abstracter's note: Complete translation]

Card 1/1

ZHUGOV, L. N., PUSHKOV, N. V., TYURMINA, L. O., FRYAZINOV, I. V. "and DOLGINOV, Sh. Sh.

"Some of the Constant Geomagnetic Field Measurements Carried out
from Sputnik III over the Territory of the USSR"

Soviet Papers Presented at Plenary Meetings of Committee on Space Research
(COSPAR) and Third International Space Symposium, Washington, D. C.,
23 Apr - 9 May 62.

42154

3.2109 (Rev 3002)

S/203/62/002/001/002/019
I023/I223

AUTHORS: Dolginov, Sh.Sh., Yeroshenko, Ye.G., Zhuzgov, L.N., and Pushkov, N.V.

TITLE: Magnetic measurements of an automatic interplanetary station to Venus

PERIODICAL: Geomagnetizm i Aeronomiya, v.2, no.1, 1962, 38-40

TEXT: A three-component magnetometer to measure the magnetic field near Venus and a magnetic variometer to measure the field during the voyage were installed on the automatic interplanetary station (AIS) to Venus. The threshold sensitivity of the variometer was 2γ , the range - 0 to 50γ . Data from the variometer were obtained on February 12 and 17, 1961. The magnetograms for February 12 (distance from Earth: 165000-175000km) are given together with data from the Moscow observatory ($\varphi = 55^\circ$). The variations of the two magnetograms were approximately the same. Data of February 17 (distance from Earth: 1.9×10^6 km, duration of

Card 1/2

S/203/62/002/001/002/019
I023/I223

Magnetic measurements...

measurements: 22 min.) show almost constant values. During the same period variations on Earth were quite big: 20-25 γ. On February 17, 1961, the AIS was in the corpuscular stream (assumption based on data from a particle trap). The magnetic field of the stream was less than 9 γ in the direction of the axis of the transducer. From data on the neutron component of cosmic rays it can be deduced that the field of the stream was weak also on Earth. Geomagnetic disturbances can be explained by a direct interaction of the corpuscular stream with the geomagnetic field. There are 3 figures.

ASSOCIATION: Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovolkan SSSR (Institute of Terrestrial Magnetism, Ionosphere, and Radio wave Propagation, AS USSR)

SUBMITTED: December 6, 1961

Card 2/2

3.9110

44449

S/203/62/002/005/004/020
A160/A101

AUTHORS: Dolginov, Sh. Sh., Zhuzgov, L. N., Pushkov, N. V., Tyurmina, L. O., Fryazinov, I. V.

TITLE: Some results of measuring the constant magnetic field of the Earth with the third artificial sputnik of the Earth above the territory of the USSR

PERIODICAL: Geomagnetizm i aeronomiya, v. 2, no. 6, 1962, 1061 - 1075

TEXT: The author presents some results of measuring the constant magnetic field of the Earth with the help of the third Soviet sputnik above the territory of the USSR from May to June 1958. A brief description is given of the metrological properties of the used equipment and of the method of eliminating magnetic board noises from the sputnik magnetograms. It was determined that the deviation may be represented by three harmonics whose mean amplitude values equal $U_{1m} = 1,500$, $U_{2m} = 500$ and $U_{3m} = 200 \gamma$. A comparison of the measured values of the geomagnetic field intensities with the values of this intensity permitted to establish their agreement within the limits of 0.1 - 1% above a

Card 1/2

Some results of measuring the...

S/203/62/002/006/004/020
A160/A101

major part of the USSR territory, including the Siberian world magnetic anomaly. The conclusion is illustrated by a limited number of typical magnetograms obtained on the segments of the trajectories traversing the whole territory of the USSR. The material yielded by the magnetic investigations with the third Soviet sputnik permits to fully determine the possibilities of carrying out special magnetic experiments. 1) The main harmonics of the Gaussian series can be determined with a precision of 0.1%. 2) With the help of a long-lasting sputnik the real existence of the exterior sources of the magnetic field has to be found out, not taking into consideration the theoretical values of the field, computed from the ground data. 3) Regular work should be done on the secular variation of the geomagnetic field. 4) In order to obtain highly accurate data, the requirements for the complex of auxiliary equipment should be determined. There are 12 figures and 1 table.

ASSOCIATION: Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln
AN SSSR (Institute of Terrestrial Magnetism, Ionosphere and Radio
Wave Propagation, AS USSR)

SUBMITTED: July 10, 1962

Card 2/2

L 1285-66 FSS-2/ENT(1)/FS(v)-3/FCC/EWA(d)/EWA(h) TT/CS/GZ
ACCESSION NR: AT5023604 UR/0000/65/000/000/0342/0356 55
AUTHOR: Dolininov, Sh. Sh.; Yeroshenko, Ye. G.; Zhurgov, L. N.
TITLE: Investigation of the earth's magnetosphere in the radiation belt zone
(3-6 R_e) in February-April 1964
TOPIC TAGS: geomagnetic field, geomagnetism, magnetic storm, artificial earth satellite, radiation belt, satellite data analysis
ABSTRACT: The authors give a detailed report on the "Elektron-2" satellite including orbital information and telemetered observations in the region of the outer radiation belt at distances of 3-6 R_e . Magnetometric measurements indicate that there is an outer magnetic field during the calm of the day associated with the protons and electrons of the radiation belt. This conclusion is made on the basis of comparatively limited observation time. Further observations by the "Elektron-4" at other orbital positions with respect to the line between the sun and the earth

Card 1/2

L 1285-66							
ACCESSION NR:	AT5023604						
should give more definite information on the extent to which the observed effects may be attributed to the radiation zone. F peculiarities observed in the dynamics of the magnetosphere far from the boundary zone, and effects observed during polar storms may be connected with the mysterious mechanism responsible for magnetic storms. "The authors consider it their pleasant duty to thank those who assisted in analyzing the materials during preparation and conduction of the experiment." Orig. art. has: 9 figures.							[14]
ASSOCIATION:	none						
SUBMITTED:	028sep65	ENCL:	00		SUB CODE:	ES, SV	
NO REF SOV:	010	OTHER:	025		ATT PLESS:	4412	
Card <i>MHC</i> 212							

L 23434-66	FSS-2/EVT(x)/FCC TT/GI	SOURCE CODE: UR/0293/66/004/002/0302/0310	
ACC NR: AP6012835	AUTHOR: Aleksanyan, L. M.; Yeroshenko, Ye. G.; Zhukov, L. V.; Fastovskiy, U. V.		44 38 B
ORG: none			
TITLE: Magnetometric apparatus of the Electron-2 space station			
SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 2, 1966, 302-310			
TOPIC TAGS: magnetometer, magnetic field measurement			
ABSTRACT: Two search-coil magnetometers capable of independently measuring three components of the magnetic field in the outer radiation belt were mounted on Electron-2. One had a measurement range of $\pm 120 \text{ y}$, and the other, a range of $\pm 1200 \text{ y}$. A block diagram of the basic magnetometer is shown in the figure. It consists of a 2-kc signal generator with associated low-pass filter for suppressing the second harmonic, a tuned amplifier (voltage gain, 12×10^3 , bandwidth at 3 db, $\pm 100 \text{ cps}$) tuned to the second harmonic with associated input filter to attenuate the first and third harmonics by 40 db, a synchronous phase detector, and a d-c current amplifier (gain, 20). Two telemetry channels are utilized for each magnetic-field coordinate, one channel for positive values and the other for negative values. A diode gate			
Card 1/3			

L 23434-66

ACC NR: AF6012835

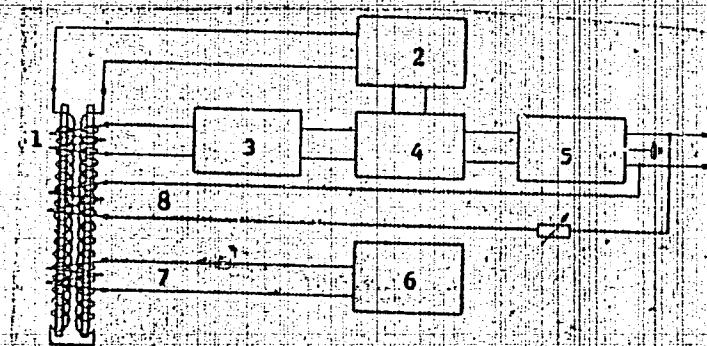


Fig. 1. Magnetometer

1 - Search coil; 2 - generator; 3 - amplifier;
4 - phase detector; 5 - dc amplifier; 6 - reference
voltage; 7 - calibration loop; 8 - feedback loop.

Card 2/3

L 23434-66

ACC NR: AP6012835

6

In the d-c amplifier unit diverts the information to the appropriate channel. The inclusion of a heavy voltage feedback confines the magnetometer nonlinearity to 2-3%. The sensitivities of two magnetometers are 2-3 γ and 20-30 γ ; the temperature stability measured at -3C, +18C, and +55C did not exceed 0.2 γ/C for the first and 0.7 γ/C for the second. A special unit for sensitivity calibration with the use of a reference voltage source is also included. The average error in measuring the scalar magnetic field was $\pm 4 \gamma$ and $\pm 40 \gamma$. The zero drift did not exceed 2-3 γ per day. The 14-v power supply for the magnetometers was stabilized by a P203 transistor and a D811 Zener diode. All other transistors used were the P103 type. Power consumption for each magnetometer was 2.2 w. "In conclusion, the authors are indebted to A. V. Klimovskiy, A. I. Konnov, Ye. Ye. Kanonidi, L. I. Ulanov, V. M. Agafonnikov, and V. G. Ryzhov for their active participation during the manufacturing, calibration, and testing of equipment." Orig. art. has: 1 formula and 4 figures. [BD]

SUB CODE: 09, 17 / SUBM DATE: 05Jun64 / ORIG REF: 003 / ATD PRESS:

4235

Card 3/3 da

L 02976-67 EWT(1)/FSS-2/FCC TI/GW

ACC NR: AP6032857

SOURCE CODE: UR/0020/66/170/003/0574/0577

AUTHOR: Dolginov, Sh. Sh.; Yeroshenko, Ye. G.; Zhuzgov, L. N.; Pushkov, N. V.

ORG: Institute of Terrestrial Magnetism, Ionosphere, and Radiowave Propagation,
Academy of Sciences, SSSR (Institut Zemnogo magnetizma, ionosfery i rasprostraneniya
radiovoln Akademii nauk SSSR)TITLE: Measurement of the magnetic field in the vicinity of the moon by the Luna-10
artificial satellite

SOURCE: AN SSSR. Doklady, v. 170, no. 3, 1966, 574-577

TOPIC TAGS: magnetic field, lunar orbit, lunar satellite, LUNAR ENVIRONMENT,
MAGNETIC FIELD MEASUREMENTABSTRACT: The magnetic field intensity in the vicinity of the moon was measured by
a three-component magnetometer carried on Luna-10. The magnetometer measurement
range and its threshold of sensitivity in each direction were 50 γ (1 γ = 10⁻⁵ Oe)
and 1 γ, respectively. During the lunar orbital flight the satellite rotated
around a given axis. The magnetic field components parallel ($T_{||}$) and perpendicular
(T_{\perp}) to this axis were measured. The absolute and relative errors in measuring the
resultant magnetic field were estimated to be ±10 γ and ±5 γ, respectively. During
the observation period (3 April to 4 May 1966), the total magnetic field and its
components fluctuated in the following ranges: $T = 23-40$ γ, $T_{||} = 18-38$ γ, and
 $T_{\perp} = 12-16$ γ. A correlation was established between variations in T and $T_{||}$.

Card 1/2

UDC: 538.7

ACC. NR: AP7007600

SOURCE CODE: UR/0293/66/004/006/0880/0899

AUTHOR: Zhuzkov, L. N.; Dolginov, Sh. Sh.; Yeroshenko, Ye. G.

ORG: none

TITLE: Investigation of the magnetic field from the satellite "Luna-10"

SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 6, 1966, 880-899

TOPIC TAGS: lunar satellite, magnetic field, solar wind / Luna-10
lunar satellite

SUB CODE: 22,03,20

ABSTRACT:

change of the index of magnetic activity at the earth's surface. The error of the absolute scalar value of the field is estimated at $\pm 10 \gamma$. Comparison of the measured field values in the region of the pericenter and apocenter and evaluation of possible distortions of the field by the solar wind indicate that the moon does not have a field of a dipole nature. The authors discuss the problem of whether the observed field can be identified with the interplanetary field of solar origin, deformed or trapped by a moon having finite conductivity and permeability. Comparison of measurements in periods of the full and new moons fails to indicate a direct extent of the earth's magnetic field on the nighttime side to distances 60 Ry.

This is a report on observations of the magnetic field of regular structure in the neighborhood of the moon whose intensity during the time of observations varied in the range 24-40 γ , in agreement with the

Card 1/2

UDC: 629.195.3:523.36:621.317.444

072803/13

ACC NR: AP7007500

The authors thank Yu. V. Afanas'yev, V. P. Lyulik, and G. N. Alukssayeva for participating in the preparation of the apparatus. Orig. art. has: 3 formulas, 12 figures and 1 table. [JPRS: 39,718]

Card 2/2

GRINGAUZ, K.I.; DOLGINOV, Sh.Sh.; BEZRUKIKH, V.V.; YEROSHENKO, Ye.G.;
ZHUZGOV, L.N.; MUSATOV, L.S.; SOLOMATINA, E.K.; FASTOVSKIY, U.V.

Relation between magnetic field variation and fluxes of positive
ions within the earth's magnetosphere as observed with the aid
of an Electron-2 satellite. Dokl. AN SSSR 159 no.6:1272-1275
D '64 (MIRA 18:1)

1. Predstavлено академиком А.Л. Митсем.

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065110002-4

ପ୍ରକାଶକ

卷之三

Digitized by srujanika@gmail.com

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065110002-4"

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065110002-4

Card 1/4

L 23291-65

ACCESSION NR AP5001986

4 - 16mm - 16 frame strip of film of positive lens and the magnetic
sector scan of the magnetic field disturbances. Numerous negative lens images

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065110002-4"

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065110002-4

YEROSHENKO, Ye. G.; DOLGINOV, Sh. Sh.; ZHUGOV, L. N.; FASTOVSKIY, U. V.; ALEKSANYAN,
L. M.

"Magnetic Investigations on the Electron 2 Satellite."

report presented at the 5th Intl Symp on Space Science, Florence, Italy, 12-16
May 64.

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065110002-4"

L 2885-65	FSS-2/EMT(1)/FS(v)-3/FOC/EWA(d)/EWA(h)	TM/DS/GW	3
ACCESSION NR:	AT5023603	UR/0000/65/000/000/0336/0341	
AUTHOR:	Gringauz, K. I.; Dolgino, Sh. Sh.; Bezrukikh, V. V.; Yeroshenko, Ye. G. Zhuzgov, L. N.; Musatov, L. S.; Solomatina, E. K.; Fastovskiy, U. V.		
TITLE:	Comparison of simultaneous measurements of magnetic field and positive ion flux within the Earth's magnetosphere recorded by the Elektron-2 satellite		
SOURCE:	Vsesoyuznaya konferentsiya po fizike kosmicheskogo prostranstva. Moscow, 1965. Issledovaniya kosmicheskogo prostranstva (Space research); trudy konferencii. Moscow, Izd-vo Nauka, 1965, 336-341.		
TOPIC TAGS	space environment, ionospheric physics, electron density, ion density, earth magnetic field/Elektron 2 satellite		
ABSTRACT:	Measurements of charged-particle flux and magnetic field at a height of 6—11.6 R (R, Earth's radius) were made by Elektron-2. The particle trap used was capable of recording positive ion flux with ion energy in excess of the potential difference of the satellite with respect to its environment and electron flux with electron energy in excess of 100 ev. The magnetometer, with orthogonally arranged sensors, was capable of measuring the magnetic field in the range of $\pm 120 \times 10^{-5}$ erg		
Card 1/2			

L 2885-66							
ACCESSION NR:	AT5023603						
in each component direction. Its threshold was 2×10^{-5} erg. The satellite measurements, when compared with solar activity data in the form of K _p indexes recorded via ground observatories, show inconsistencies in the correlation between the variation of magnetic activity on the Earth's surface and the variation of the geomagnetic field intensity and charged particle flux as measured by the satellite. It is uncertain whether these observations can be explained by the solar wind penetrating the magnetosphere or by near-earth plasma due to charged particles accelerated by a yet unknown mechanism. Orig. art. has: 6 figures.							
[BD]							
ASSOCIATION:	None						
SUBMITTED:	02/ep65	ENCL:	00	SUB CODE:	ES, SR		
NO REF SOV:	003	OWNER:	008	ATT PRESS:	409		
Card 2/2 JF							

ZHUZH, A.D.

MATSKIN, L.A.; KOVALENKO, K.I.; BABUKOV, V.G.; KONSTANTINOV, N.N.;
PONOMAREV, G.V.; PAL'CHIKOV, G.H.; PELENICHKO, I.G.; SHAMARDIN,
V.M.; GLAIKOV, A.A.; BRILLIANT, S.G.; SHEVCHUK, V.Ya.; SOSHCHEM-
KO, Ye.M.; ALEKSANDROV, A.M.; BUNCHUK, V.A.; KRUPENIK, P.I.;
MAYEVSKIY, V.Ya.; YELSHIN, K.V.; GAK, Kh.A.; POTAPOV, G.M.;
KARDASH, I.M.; STEPUR, S.I.; KAPLAN, S.A.; SELIVANOV, T.I.;
YEREMENKO, N.Ya.; ZHUZH, A.D.; USTINOV, A.A.; GIRKIN, G.M.;
VOLOBUYEV, P.P.; CHERNYAK, I.L., nauchnyy red.; DESHALYT, M.G.,
vedushchiy red.; GENNAD'YEVA, I.M., tekhn.red.

[Combating losses of petroleum and petroleum products; materials
of the All-Union Conference on Means of Combating Losses of
Petroleum and Petroleum Products] Bor'ba s poteriami nefti i
nefteproduktov; po materialam Vsesoiuznogo soveshchaniia po bor'be
s poteriami nefti i nefteproduktov. Leningrad, Gos.nauchno-tekhn.
izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 157 p. (MIRA 13:2)

1. Nauchno-tekhnicheskoye obshchestvo neftyanoy i gazovoy pro-
myshlennosti.

(Petroleum industry)

ZHURZHA, M.Ye., kand.tekhn.nauk

Equipment for hydraulic haulage and hoisting of coal and rock
in the Donets Basin mines. Ugol' Ukr. no.6:12-14 Je '61.

(MIRA 14:7)

1. Donetskiy nauchno-issledovatel'skiy ugol'nyy institut.
(Donets Basin—Coal mines and mining—Hydraulic equipment)
(Mine hoisting) (Mine haulage)

ZHURZHI, M.Ye., kand.tekhn.nauk; PODOLICH, Yu.S., inzh.

Power evaluation of the expediency of hydraulic hoisting systems
with chamber feeders. Ugol' Ukr. 6 no.9:14-15 S '62.

(MIRA 15:9)

1. Donetskiy nauchno-issledovatel'skiy ugol'nyy institut.
(Mine hoisting) (Hydraulic conveying)

CHETVERTAK, A.M. inzh.; ZHUCHA, S.M., inzh.

Machine for making small angle irons. Mekh. stroi. 15 no.6:29-30
My '58. (MIRA 11:6)

(Machine tools) (Steel, Structural)

AUTHOR: Chetvertak, A.M., Engineer Sov/ 100-58-5-10/15
 Zhuzha, S.M., Engineer.

TITLE: Machine for Small Angles. (Mashina dlya ugolkov melkogo profilya.)

PERIODICAL: Mekhanizatsiya Stroitel'stva, 1958, Nr 5, pp 29-30.

ABSTRACT: The authors of this article designed and made a special machine for straightening out angles of small profile in the workshops of the Yuzhelektromontažh Trust in Zaporozh'ye. The advantage of this machine is its simplicity since it could be made in every machine shop. The working system of the machine is illustrated in Figure 2. It is powered by a dynamo of 20kW with a speed of 1,450 rotations per minute. The individual working parts are described in detail. The weakness of this machine lies in the difficulty of adjustment to accommodate larger angles. There are three figures.

Card 1/1 1. Machine tools--Design

KATYUKHIN, N.Ya.; ZHUZHALKIN, A.P.

Some results of the work under new conditions. Zdrav. Ros. Feder.
4 no.3:19-22 Mr '60. (MIRA 13:5)

1. Iz Amurskogo obldzdravotdela.
(TAMBOV DISTRICT (AMUR PROVINCE)--PUBLIC HEALTH, RURAL)

ZHUZHZE ALKIN, A.P.

Experience in Tambov District. Zdrav.Ros.Feder. 4 no.11:29-31 '60.
(MIRA 13:11)

1. Glavnnyy vrach Tambovskogo rayona Amurskoy oblasti.
(TAMBOV DISTRICT (AMUR PROVINCE)--PUBLIC HEALTH)

SHUTSKAYA, Yekaterina Konstantinovna; ZHUCHCHENKO, B.P., red.; FILIMONOVA, A.G., vedushchiy red.; FEDOTOVA, I.G., tekhn.red.

[Lower Paleogene stratigraphy and facies of Ciscaucasia] Stratigrafiia i fatsii nizhnego paleogena Predkavkaz'ia. Moskva, Gos. nauchno-tekhn. izd-vo naft. i gorno-toplivnoi lit-ry, 1960. 102 p.
(MIRA 13:7)

(Caucasus, Northern--Geology, Stratigraphic)

ZHURGIN, I. I.

Kak ia dobivais' vysokoi vyrabotki konservov [How I attain high yields in
canning]. Murmansk, Murmanryba, 1952. 12 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 2, May 1953

EPSHTEYN, F.G., SOROKINA, Ye.Yu., TITOVA, G.V., LEKHCHINSKAYA, Ye.V.,
SEYAZEVA, L.D., SEMASHKO, S.A., DUBNYAKOVA, A.M., ZHUZHIGINA, M.A.,
MARTYNOVA, G.D.

Clinical and laboratory data on influenza A, in adults according to
finding during the 1953-1954 epidemic. Zhur.mikrobiol. epid. i
imun. 29 no.9:29-33 S '58 (MIRA 11:10)

1. Iz Instituta virusologii imeni Ivanovskogo AMN SSSR:
(INFLUENZA, epidemiology,
A1, in Russia (Rus))

TOPIC PAGE 219296, Free radical and ionization UV photochemistry

solvent reactivity changes. The ESR spectra were recorded after UV irradiation at

Coro

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065110002-4

L 60261-69

ACCESSION #: R1-A25011600

that the formation of free radicals in UV-irradiated films may take place via
rupture of S-S, S-E, and C-H bonds. Orig. art. has: 4 paragraphs and 31 equations.

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065110002-4"

ZHUZHGOV, E.L.; BUBNOV, N.N.; VOYEVODSKIY, V.V.

Formation and reactions of free radicals in organosilicon compounds subject to ultraviolet irradiation. Part 1:

Polyphenylmethylsiloxane. Kin. i kat. 6 no.1:56-64 Ja-F '65.

(MIRA 18:6)

1. Institut khimicheskoy kinetiki i goreniya Sibirsogo otdeleniya AN SSSR.

ZHUCHIKOV, D.P.

Functions of the housefly intestine prior to the onset of feeding. Nauch.dokl.vys.shkoly; biol.nauki no.2:23-27 '63.
(MIRA 16:4)
1. Rekomendovana kafedroy entomologii Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.
(FLIES) (DIGESTIVE ORGANS--INSECTS)

ZHUZHIKOV, D.P.

Simple device for oriented imbedding of small objects in paraffin.
Arkh.anat., glist.i embr. 44 no.1:101-102 Ja '63. (MIRA 16:5)

1. Kompleksnaya laboratoriya (nauchnyy rukovoditel' - prof. N.P. Baumov) biologo-pochvennogo fakul'teta Moskovskogo gosudarstvennogo universiteta. Adres avtora: Moskva, V-234, Leninskiye gory, Moskovskiy gosudarstvennyy universitet, biologo-pochvennyy fakul'tet, kompleksnaya laboratoriya.

(MICROSCOPY--TECHNIQUE)

ZHUCHIKOV, D.P.

Formation of the peritrophic membrane in the mosquito *Aedes aegypti*
L. Nauch.dokl.vys.shkoly; biol.nauki no.4:25-27 '62.

(MIRA 15:10)

1. Rekomendovana kafedroy entomologii Moskovskogo gosudarstvennogo
universiteta im. Nauch.dokl.vys.shkoly; biol.nauki no.4:25-27 '62.

(MIRA 15:10)

1. Rekomendovana kafedroy entomologii Moskovskogo gosudarstvennogo
universiteta im. M.V.Lomonosova.

(MOSQUITOES) (DIGESTIVE ORGANS—INSECTS)

ZHUZHIKOV, D.P.

Structure of the peritrophic membrane in Diptera. Vest. Mosk. un.
Ser. 6: Biol., pochv. 18 no.1:24-35 Ja-F '63. (MIRA 16:12)

.. Kafedra entomologii Moskovskogo universiteta.

ZHUZHIKOV, D.P.

Possibility of bacteria surviving the metamorphosis of the housefly. Med. paraz. i paraz. bol. 32 no.5:558-562 S-0
'63 (MIRA 16:12)

1. Iz kompleksnoy laboratorii biologo-pochvennogo fakul'teta
Moskovskogo gosudarstvennogo universiteta (nauchnyy rukovo-
ditel' - prof. N.P. Naumov).

AVDEYIVA, Ye.V.; ZHUZHIKOV, D.P.; ZOLOTAREV, Ye.Kh.; SAGITULLIN, R.S.

Insecticidal properties of some pyrazolyl carbamates. Vest. Mosk. un. Ser. 6: Biol., pochv. 16 no.6:19-25 N-D '61. (MIRA 15:1)

1. Kompleksnaya laboratoriya po izucheniyu sredstv i sposobov bor'by s vrednymi zhivotnymi i boleznyami rasteniy Moskovskogo universiteta.
(Insecticides) (Carbamic acid)

ZOLOTAREV, Ye.Kh.; ZHUZHIKOV, D.P.; AVDEYEVA, Ye.V.

Dependence of the quality of Dalmatian pyrethrum on the methods
of harvesting. Vest. Mosk. un. Ser. 6: Biol., pochv. 18 no.2:
40-42 Mr-Ap '63. (MIRA 17:10)

1. Kompleksnaya laboratoriya po izucheniyu sredstv i sposobov
bor'by s vrednymi zhivotnymi i boleznyami rasteniy.

ZHUZHNIKOV, E.

Reversivno-puskovye ustroistva sovremenныkh sudovykh dizelei. Moskva,
Gosmorizdat, 1940. 35 p. diagrs.

Reversible starters of modern marine Diesel engines.

DLC: VM770.25

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953.

KRASOVETSkiY, Yu.V.; ZHuzhikov, V.A.

Some regularities of the separation process in dust-containing
gas stream by filtration at a constant rate. Khim. prom. no.2:
129-132 F '63. (MIRA 16:7)

(Filters and filtration)
(Gases—Purification)

ZHUZHJKOV, V.A., kand.tekhn.nauk

Law governing the filtration when suspensions separate
into layers on a filter. Khim.prom. no.4:315-323
Je '60. (MIRA 13:8)

(Filters and filtration)

		06227	
5(1)		SOV/64-59-6-19/28	
AUTHOR:	Zhuzhikov, V. A.		
TITLE:	Laws Governing Filtration in the Case of a Separation of Condensed Suspensions at the Filter		
PERIODICAL:	Khimicheskaya promyshlennost', 1959, Nr 6, pp 528 - 529 (USSR)		
ABSTRACT:	Although the subject mentioned in the title would be of great practical value, it has so far not been investigated. The particles in suspension move freely in the liquid, while the movement of particles is greatly impaired in a condensed suspension at the filter, which suggests that there may possibly be a difference between the filtration of a condensed suspension and that of a non-condensed. In order to clarify this problem, the author investigated the filtration of condensed aqueous suspensions of the hydroxides of aluminum, chromium, copper, and iron, as well as of calcium carbonate and talc. The experiments were carried out by means of a vacuum filter with transparent sides. It was shown that in the separation of condensed suspensions by filtration the liquid does not flow through between the solid particles. Experiments on the dependence of the amount of the filtrate obtained on the filtration time in the case of a condensed chromium hydroxide		
Card 1/2			

Laws Governing Filtration in the Case of a
Separation of Condensed Suspensions at the Filter

06227
SOV/64-59-6-19/28

suspension (Fig 1) showed that there is no difference between the laws governing the filtration of condensed and non-condensed suspensions, which was also confirmed by experiments concerning the specific resistance of the precipitate (Fig 2). There are 2 figures.

Card 2/2

ZHUZHIKOV, V.A.

"Reference guide on solubility. Vol.1: Binary systems". Reviewed by V.A.Zhuzhikov. Khim.prom. no.9;698 S '62. (MIRA 15:11) (Solubility) (Systems (Chemistry))

ZHUCHIKOV, V.A., kand.tekhn.nauk

Methods of determining the specific resistance of filtration
residues at a constant pressure difference. Khim.mash. no.2:17-
23 Mr-Ap '60.

(MIRA 13:6)

(Filters and filtration)

ZHUCHIKOV, V.A.

Regularities of filtration during the separation of demixing suspensions on a filter. Khim. prom. no. 5:371-373 My '63.
(MIRA 16:8)

KRASOVITSKIY, Yu.V.; ZHUCHIKOV, V.A.

Role of the frontal layers of the filtering plate in the process
of the separation of solid particles from gases. Khim. prom. 40
no.8:620-621 Ag '64.

(MIRA 18:4)

25(1)

AUTHOR:

Zhuzhikov, V. A.

SOV/64-59-1-16/24

TITLE:

Selecting the Operating Cycle of an Evaporator (O vybore periodicheskogo cykla raboty vyparnogo apparata)

PERIODICAL:

'Khimicheskaya promyshlennost', 1959, Nr 1, pp 71-72 (USSR)

ABSTRACT:

Methods applied for determining the operating cycle of periodically working filters (Refs 1, 2) can be applied, in analogy, to evaporators taking into account the periodic cleaning of the heating surface from deposits. On the basis of this analogy, equations for the evaporation taking into account the changing thermal resistivity of the deposit layer (1) - (8) are derived in the present case. Subsequently, computations for determining the evaporation time with reference to the maximum efficiency of the evaporator are made with an example of computation in order to ascertain the economy of the whole plant. On account of a graphic representation (Fig) it is found that also in the case of less frequent cleaning - neglecting the conditions of maximum efficiency - the average rate of heat transfer only suffers a slow decrease. There are 1 figure and 8 references, 5 of which are Soviet.

Card 1/1

ZHuzHIKOV, V.A.

KASATKIN, A.G., professor, doktor tekhnicheskikh nauk, redaktor; ZHuzHIKOV,
V.A., redaktor; KAFAROV, V.V., redaktor; KAGAN, S.Z., redaktor;
LUR'YE, M.S., tekhnicheskiy redaktor

[Processes and apparatus used in chemical technology] Protsessy i
apparaty khimicheskoi tekhnologii; sbornik rabot. Pod red. A.G.
Kasatkina. Moskva, Gos. nauchno-tekhn. izd-vo khimicheskoi lit-ry,
1953. 115 p. [Microfilm] (MIRA 7:10)

1. Russia (1923- U.S.S.R.) Ministerstvo khimicheskoy promyshlennosti.

(Chemistry, Technical)

ZHUZHIKOV, V.A.

Some principles for designing filters for the separation of
demixing suspensions. Khim.prom. no.12:854-860 D '61.

(MIRA 15:1)

(Suspensions (Chemistry)) (Filters and filtration)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065110002-4

ZHUCHIKOV, V.A.

Essence of similitude criteris. Khim. prom. 41 no.8, 561-
565 Ag '65. (MIRA 18:9)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002065110002-4"

ZHUCHIKOV, Viktor Aleksandrovich; Ramm, V.M., red.; SHIPAK, Ye.G., tekhn.
red.

[Filtration; theory and practice of the separation of suspensions]
Fil'trovaniye; teoriya i praktika razdeleniya suspenzii. Moskva,
Gos. nauchno-tekhn. izd-vo khim. lit-ry, 1961. 303 p.
(MIRA 14:9)

(Filters and filtration) (Suspensions (Chemistry))

L 06088-57
ACC NR: AP6021203 (A) SOURCE CODE: UR/0314/66/000/003/0029/0331

AUTHOR: Zhuzhikov, V. A. (Doctor of technical sciences)

ORG: none

TITLE: Methods for determining the specific resistance of filter cakes

SOURCE: Khimicheskoye i neftyanoye mashinostroyeniye, no. 3, 1966, 29-31

TOPIC TAGS: filtration, specific resistance

ABSTRACT: The article starts with a tabular listing of results given in previously published literature for a variety of substances being filtered. In these articles, measurements were made in two ways (details of methods not given): A--with a constant thickness of the filter cake; B--with increasing thickness of the filter cake. A second table lists the deviations recorded in the value of the specific resistance in the filtering of aluminum, chromium, iron, and copper hydroxides, with measurements by the two methods. The data are treated by statistical theory. Based on the calculated results, a figure shows the dependence of the deviation of the value of the specific resistance on the pressure drop through the cake. It was found that the tendency of the cakes toward further densification during additional filtration is less, the larger the pressure drop at which they were originally formed. If the consideration is limited to a range of pressure drops of 4000-8000 kg/m², the specific resistance of the

Card 1/2 UDC: 66.067.1:620.10

I 06088-67
ACC NR: AP6021203

strongly compressed cakes, determined by method A, is greater than that determined by method B by not more than 20%. For practical purposes, it is concluded that measurement of the specific resistance with increasing thickness of the filter cake has undoubtedly advantages. Orig. art. has: 2 figures and 1 table.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 005

Card 2/2 J;

ZHUZHKOVA, Z. M., Cand of Agric Sci -- (diss) "Sowing Norms and the
Methods of Sowing Districally Divided Types of Flax," Moscow, 1959,
18 pp. (Moscow Agricultural Academy im Timiryazev) (KL, 5e60, 128)

ZHUZIN, V. N.

Veprintsev, I. I. and Zhuzin, V. N. - "Carnosine in the muscles of rabbits along with insulin and strychnine cramps", Trudy Astrakh. gos. med. in-ta, Vol. IX, 1948, p. 9-11.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

KIRILLOV, S.A., kand.med.nauk; ZHUZHKOVA, I.F. (Moskva)

Rare case of the cardiovascular form of rheumatic fever. Klin.med.
37 no.10:120-123 O '59. (MIRA 13:2)

1. Iz 6-y klinicheskoy bol'nitsy Mosgorzdravotdela (glavnnyy vrach
I.N. Kurgannikov).
(RHEUMATIC HEART DISEASE pathol.)

NESMEYANOV, Nik.A.; ZHUZHLIKOV, S.T.; REUTOV, O.A.

Sulfuration of phosphorylides. Sulfobetaines. Dokl. AN SSSR 151
no.4:856-858 Ag '63. (MIRA 16:8)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
2. Chlen-korrespondent AN SSSR (for Reutov).
(Phosphorus organic compounds) (Sulfuration) (Betaine)

NESEMEYANOV, Nik.A.; ZHUZHLIKOV, S.T.; REUTOV, O.A.

Interaction of phosphocrylides with diphenyl iodonium salts.
Izv. AN SSSR Ser. khim. no.1:194-196 '65.

(MIRA 18:2)

1. Moskovskiy gosudarstvennyy universitet.

L 23582-66 EWT(m)/EWP(j)/T RM
ACC NR: AP6005283 (A) SOURCE CODE: UR/0413/66/000/001/0025/0025

INVENTOR: Knyaylov, V. S.; Artem'yev, A. A.; Ovakimyan, G. B.; Zhuthikov, V. A.;
Nosov, G. P.

ORG: none

TITLE: Method of preparing E-caprolactam, Class 12, No. 177421

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 25

TOPIC TAGS: caprolactam nitration

ABSTRACT: An Author's Certificate has been issued describing a method for preparing E-caprolactam for cyclohexane by liquid-phase nitration with nitric acid and hydrogen reduction of the nitrocyclohexane on metallic copper in a medium of cyclohexane and liquid ammonia. To reduce processing time, the tubular reactor is pressure-fed cyclohexane (50-150 atm) plus 25 -- 45% nitric acid in a 1.4 -- 0.5 molar ratio. At the reactor outlet, the reaction mixture is rapidly cooled to 25 -- 30°C without lowering the pressure; the nitrocyclohexane is then separated from the mixture by conventional methods and reduced, within 40 -- 45 min at 180 -- 200 atm and a temperature which is gradually increased from 80 -- 85°C to 115 -- 120°C, to cyclohexanone oxide which is subsequently converted to E-caprolactam by conventional methods. To ensure a constant temperature of 200 -- 250°C, the reactor walls at the inlet are washed.

Card 1/2

UDC: 547.466.3.07

L 23582-66

ACC NR: AP6005283

with a cold liquid circulated from the point of the outlet of the hot reaction mixture
to the point of admission of the cold mixture. [LD]

SUB CODE: 07/ SUBM. DATE: 21Jul54/

Car 2/2 P.P.

ZHVACHKIN, D.I.

94-3-11/26

AUTHORS: Zhvachkin, D.I., Boberchuk, V.E., Gordenkov, Yu.A.,
Levenson, L.I., Kiss, T.N., Rogachev, K.I.

TITLE: A High-output Device for Gauging Holes by Means of a
Sphere (Vysokoproizvoditel'noye prisposobleniye dlya
kalibrovki otverstiya sharikom)

PERIODICAL: Promyshlennaya Energetika, 1958, Vol.13, No.3, p. 19
(USSR).

ABSTRACT: This is a suggestion that received fifth premium in an
All-Union competition for the economy of electric power.
Manufacture of the bushing for the pressure device of a
spinning machine entails particularly accurate machining of
the internal diameter. The authors developed a method of
gauging this diameter by means of steel balls and introduced
it at the Tashkent Textile Machinery Works (Tashtekstil'mash).
The device includes a jig to hold the bushing and a pneumatic
cylinder which pushes the ball through the hole; the ball
then returns to the initial position. The device can be
used to calibrate 5 000 bushes per shift with considerable
economy of electricity.

There is 1 figure..

AVAILABLE: Library of Congress
Card 1/1

NIKONIUK, V.P.; ZHVACHKINA, A.A.

Selective feeding of Protozoa on soil bacteria. Inv. All Ukr. SSR.
Ser. biol. nauk no.1:63-66 '57. (MIRA 13:6)
(PROTOZOA) (SOILS--BACTERIOLOGY)

KVASNIKOV, Ye.I.; ZHVACHKINA, A.A.; MIKHAYLOVA, Ye.K.

Lactobacillus in the alfalfa rhizosphere. Izv. AN UzSSR 3:27-37
'56. (MIRA 12:6)

(Lactobacillus) (Alfalfa)
(Rhizosphere microbiology)

ZHVAGO, A. V.

USSR/Scientific Organization - Conferences

Card 1/1 Pub. 45 - 14/15

Authors : Aref'yeva, V. A., and Zhvago, A. V.

Title : Scientific conference in Vilnius

Periodical : Izv. AN SSSR. Ser. geog. 5, 93 + 95, Sep - Oct 1954

Abstract : An account is given of a conference held in the city of Vilnius in Lithuania in which 20 reports were read dealing with the subjects of geophysics, climatology, hydrology and oceanography. The institutions represented were, the Lithuanian Academy of Sciences, the Geographic Institute of the Soviet Academy of Sciences, the Institute of Oceanography of the Soviet Academy of Sciences, the Directorate of the Hydrometeorological Service of Latvia, the Chair of Climatology of the Vilnius State University and the Kaunas Polytechnical Institute. The conference lasted from the 10th to the 13th of May, 1954.

Institution:

Submitted:

S/112/59/000/014/071/085
A052/A001

Translation from: Referativnyy zhurnal, Elektrotehnika, 1959, No. 14, pp. 244-245, # 30278

AUTHOR: Zhvakin, Yu. I.

TITLE: Measurement of Magnetic Permeability of Ferrites on Radio-Frequencies

PERIODICAL: Tr. Taganrogsk. radiotekhn. in-ta, 1957, 3, No. 2, pp. 59-65

TEXT: A method of measuring magnetic permeability and the tangent of angle of ferrites in the 100 kc-20 Mc band is described. The measurements are carried out by means of a transformer the primary winding of which is a toroidal coil wound on a core of a high-quality dielectric and the secondary winding is a coaxial brass socket with the investigated toroidal sample of ferrite inserted in its field. The parameters of ferrite are determined from the parameters of the transformer measured with a "Q"-meter under the following operational conditions: an open secondary winding, a closed secondary winding without the ferrite sample and a closed secondary winding with the ferrite sample. The calculation relations and the results of measurements are given. Ye. B. Z.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

FAVER, G.L., kand. med. nauk; ZHVAKINA, F.N.

Early diagnosis of intracranial injuries in newborn infants.
Akush. i gin. 39 no.4:111-113 Jl-Ag'63 (MIRA 16:12)

1.Iz rodil'nogo otdeleniya bol'nitsy (glavnnyy vrach I.V.Kol'tsov)
Cherepovetskogo metallurgicheskogo zavoda.

ZHVALEVSKIY, A.S. [Zhvalevskiy, A.S.]; BERSHADSKIY, G.Yu. {Bershads'kiy, H.IU.]

Electromagnetic feeder of SKO (canned food container) lids.
Khar. prom. no. 3:46-47 JI-S '65. (MIRA 18:9)

STANISLAVSKIY, Ye.S.; ZHVANETSKAYA, M.I.

Toxicity and immunogenicity of cellular structures of *Escherichia coli*. Zhur. mikrobiol., epid. i immun. 41 no.1;66-72 Jr 1964.
(MIRA 18:2)

1. Moskovskiy institut vaktsin i syvorotok imeni Mechnikova.

AVATLIAN, L.V.; ZHVANIYA, G.A.; RUSADZE, U.S.; KHITURIANI, D.S.

Treatment and late results of suppurative diseases in newborn infants. Soob. AN Gruz. SSR 38 no.2:491-496 My '65.

(MIRA 18:9)

1. I-ya gorodskaya detskaya ob'yedinnennaya bol'nička, Tbilisi.
Submitted December 23, 1964.

L 32190-6	EWT(1)	IJP(c)	AT	
ACC NR: AP60.3932				SOURCE CODE: UR/0207/66/000/002/0119/0121
AUTHOR: <u>Zhvaniya, I. A. (Sukhumi); Kucherov, R. Ya. (Sukhumi); Rikenglaz, L. E.</u> (Sukhumi)				55 B
ORG: none				
TITLE: Stability of a nonhomogeneous electron beam				
SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 2, 1966, 119-121				
TOPIC TAGS: electron beam, plasma instability, perturbation				
ABSTRACT: The authors consider development of perturbation in a nonhomogeneous periodic <u>electron beam</u> to determine whether <u>plasma instability</u> in a limited space is an absolute or a convective process. Theoretical expressions are derived for the perturbations in the electron beam in terms of the density, velocity, charge and mass of the electrons, ion density and potential. The criterion for determining whether the perturbation will increase or decrease is discussed. It is shown that the increment in perturbation is proportional to the square of the amplitude for weak disturbances. Orig. art. has: 15 formulas.				
SUB CODE: 20/	SUBM DATE: 25Feb65/	ORIG REF: 003/	OTH REF: 005	
LS				
Card 1/1				

ERISTAVI, K.D.; ZHVANIYA, T.O.

Five years' experience in the use of radioactive iodine in
treating thyrotoxicosis. Trudy Inst. eksp. i klin. khir. i
gemat. AN Gruz. SSR 11:81-86 '63. (MIRA 17:8)

BOGOSLOVSKIY, Yu.N.; ZHVAKINA, L.D.; KUDRYASHOV, V.I.; MAKAROV, G.N.

Simultaneous measurement of the thermal effects and the viscosity
of coal during heating. Zav. lab. 31 no.11:1362-1363 '65.

(MIRA 19:1)

1. Moskovskiy khimiko-tehnologicheskiy institut imeni Mendeleyeva.